POSITIONS WANTED

Pharmaceutical Chemist D.Sc. (Ph.D.): actively involved in drug metabolism, pharmacokinetics and project development (NDA and IND level). Applicants are invited from candidates with a Ph.D., postdoctoral experience, and demonstrated research productivity. Excellent knowledge of current techniques. Currently based in Europe, applications are invited from all countries. Three years of previous industry experience. Excellent knowledge of French. Sits in industry position in U.S.A. or Europe. Box 8, SCIENCE.

APPLICATIONS SCIENTIST. Develop and test new methods for x-ray analysis on transmission electron microscopy with an interest in demonstrating company equipment to potential customers on site and at customers’ site; train customers and sales engineers personnel on the proper use of company equipment; test new equipment and software to specifications; prepare materials for written and oral presentations for seminars, technical papers, users’ manuals, training schools and brochures; answer technical questions from users either on operation of company equipment or solving application specific problems; advise the marketing and sales department in the development of new products. Ph.D. in physical materials science required and 3 years of experience in the job offered or 3 years research experience as a scientist. As research scientist, must have utilized transmission electron microscopes and scanning electron microscopes as well as wavelength dispersive spectrometry. Forty hours per week, 8:30 a.m. to 5:00 p.m., $45,900 per year. Send resume and Social Security number to: Illinois Department of Employment Security, 401 S. Dearborn, Chicago, IL 60605, Attention: Len Boksa, Reference #7647-B. An Equal Opportunity Employer paid ad.

AQUACULTURE EXTENSION/RESEARCH POSITION. Tenure-track position, beginning July 1988 at assistant or associate professor level. Ph.D. required. Eighty percent extension, 20 percent research. Program development will require cooperative work with existing and potential partners, county agents, agribusinesses, natural resource agencies, and academic departments. The candidate will develop an aquaculture research program in his/her area of interest. Open until 1 March 1988 or until filled. Minorities encouraged. Send resume, career plans, and three letters of reference to: Dr. Richard L. Noble, Chairman, Search Committee, North Carolina State University, Department of Zoology, Campus Box 7617, Raleigh, NC 27695. NCSU is an Equal Opportunity/Affirmative Action Employer.

AQUATIC ECOLOGIST

The Academy of Natural Sciences of Philadelphia has an immediate opening for Environmental Research for a career-track position in aquatic ecology. We are particularly interested in applicants with a background in one or more of the following areas, although applicants with interests in any area of aquatic ecology may apply: microbial ecology, phytoplankton production, biogeochemistry, hydrology, or fish ecology. Applicants must have a Ph.D. in an appropriate discipline and preferably postdoctoral experience, demonstrated excellence in research, ability to attract grant funds, and interest in participating in both basic and applied research. Submit curriculum vitae, statement of research interests, and names of three referees by 15 March 1988 to Dr. Sue Selze, Chairperson, Curatorial Search Committee, Academy of Natural Sciences, Division of Environmental Research, 1220 North 21st Street and the Parkway, Philadelphia, PA 19103. An Equal Opportunity Employer.


ASSISTANT PROFESSOR OF PLANT PATHOLOGY. Washington State University

The Department of Plant Pathology, Washington State University, Pullman, invites applications for a full-time (12 months per year) tenure-track appointment as assistant professor and assistant plant pathologist to conduct research and teach in the area of molecular biology/genes of plant pathogenic fungi or bacteria or pathogens-host interactions. A Ph.D. is required, training in plant pathology is preferred. In case of candidates judged to have comparable abilities and potentials, those having expertise with fungi will be favored. Research involves the identification of the pathogen(s) and direction of a program in the specialty area. Teaching duties will include a graduate course in the Specialty area (expected), contributing to undergraduate and graduate courses; and direction of M.S. and Ph.D. students. Applications must be received by 15 April 1988. Applicants should submit a resume, copies of publications, and names of three references to: Professor Stephen D. Wyatt, Department of Plant Pathology, Washington State University, Pullman, WA 99164-6430. WSU is an Equal Opportunity/Affirmative Action Employer. Protected group members are encouraged to apply and to identify their status.
ASSISTANT PROFESSOR
PHARMACOLOGY/TOXICOLOGY

Tenure-track faculty positions are available in the Department of Pharmacology and Toxicology at the Medical College of Georgia for individuals with strong promise of research and teaching in modern pharmacology or toxicology. Applicants should have a Ph.D. or M.D. degree, significant postdoctoral research accomplishment, and be prepared to respond to new challenges. Current strengths of our department are in cardiovascular and neurological sciences. Applicants are expected to establish a strong research program and effectively educate medical and graduate students. Please send curriculum vitae, bibliography, summary of professional goals, and names of three references to: Dr. R. W. Caldwell, Department of Pharmacology and Toxicology, Medical College of Georgia, Augusta, GA 30912. Equal Opportunity Employer/Affirmative Action Program.

INSTITUTE OF CHEMICAL TOXICOLOGY
WAYNE STATE UNIVERSITY

Wayne State University is pleased to announce the development of a new institute dedicated to research in toxicology. The Institute of Chemical Toxicology occupies newly renovated laboratory space consisting of 16,000 square feet within the Metropolitan Center for High Technology and features modern research and support facilities. Strong emphasis is invited for tenure-track faculty positions in the ranks of ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, and PROFESSOR in the areas of molecular, respiratory, and heavy metal toxicity. Emphasis will be accorded research which utilizes modern molecular and cellular approaches in the investigation of mechanism(s) of xenobiotic-mediated toxicity, although initial emphasis is directed toward the aforementioned areas of research, applications from outstanding candidates in other areas of contemporary toxicology will be considered. Candidates should have an M.D. or Ph.D. degree, at least 2 years of relevant postdoctoral research experience, demonstrated productivity and be capable of conducting independent research and securing extramural support. Salary and rank commensurate with qualifications. Curriculum vitae and three letters of reference should be sent by 51 March 1988 to:

Dr. Raymond F. Novak
Chairman, Search Committee
Institute of Chemical Toxicology
Wayne State University
1072 Mackenzie Hall
Detroit, MI 48202
Wayne State University is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE ENVIRONMENTAL HAZARDS SCIENTIST

The California Department of Food and Agriculture will hold a competition for positions in the Environmental Monitoring and Pest Management Branch (Sacramento office). Requires M.S. and 2 years of research experience or a Ph.D. Starting salary: $32,400. Exam final filing date: 4 March 1988. Excellent benefits. Areas of expertise: analytical chemistry, statistics, mathematics/modeling, computer science, soil science, microbiology/parasitology, plant pathology. For an application call/write: John Sanders or Kathy Brunetti, California Department of Food and Agriculture, 1220 North Street, A-149, Sacramento, CA 95814. Telephone: 916-324-8916 (leave name and address).

ASSISTANT/ASSOCIATE PROFESSORS IN PHARMACOLOGY—Tenure-track

The Department of Pharmacodynamics, College of Pharmacy, University of Florida, is searching for two to three assistant/associate professors to fill tenure-track positions and join an expanding department of pharmacologists, toxicologists, and physiologists. Applicants must hold a Ph.D. degree, have postdoctoral training and a proven research record. The ideal candidate will be required to develop an active independent research program, actively seek extramural funds, participate in team teaching of pharmacology, physiology and/or pharmacology or pharmacy students and participate in graduate student training. Current research areas of the faculty in the area of current age, neuroendocrinology, cardiovascular pharmacology, pharmacology and temperature regulation. Positions will be available by May, 1988. Applicants should send curriculum vitae, a description of research interests and career goals, and have three letters of reference sent by 1 March 1988 to: Dr. Michael J. Meldrum, Chairman, Search Committee, Department of Pharmacynamics, Box 1487, JHMHC, University of Florida, Gainesville, FL 32610. The University of Florida is an Equal Opportunity/Affirmative Action Employer.

VACANCY FOR ASSOCIATE CHIEF OF STAFF FOR EDUCATION

 Experienced academic to assume responsibility for coordination of educational programs, including a combined graduate medical education program for residents. Programs are in two VA Medical Centers in the Tampa Bay Florida area. This position includes academic and administrative responsibilities. The applicant will be invited for tenure at the Florida College of Medicine in Tampa. Salary and fringe benefits are commensurate with qualifications. Please send résumé and supporting documents to:

William E. Layden, M.D.
Chairman
Associate Chief of Staff Education Search Committee
James A. Haley Veterans Hospital
13000 Bruce B. Downs Boulevard
Tampa, FL 33612
An Equal Opportunity Employer.

ASSOCIATE RESEARCH SCIENTIST, NEUROPATHOLOGY

The Section of Neuropathology, Yale University School of Medicine, invites applications for an associate research scientist, a non-tenured faculty position for teaching and research. Applicants must have a comprehensive knowledge in the area of slow viruses, biochemical techniques, e.g., biochemistry. A Ph.D. in biochemistry and 3 years of postdoctoral work are required. Send curriculum vitae, list of publications and three references to: E. E. Manulisid, M.D., Chief, Section of Neuropathology, Department of Pathology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510. Deadline for application is 1 July 1988.

BIOLOGY
BALL STATE UNIVERSITY
MUNCIE, INDIANA

ASSISTANT PROFESSOR, tenure-track position in the Department of Biology, available fall, 1988. Responsibilities: Contribute to and participate in the introductory biology program; serve as curator for the University Herbarium; and to develop a strong specialty in a new area. Minimum qualifications: Earned doctorate in Biological Sciences and a B.S. or M.S. in Forestry. Preferred qualifications: Demonstrated teaching/research ability, publications and/or evidence of other scholarly contributions expected. Submit résumé, documentation of scholarly activity, e.g., reprints of publications, funded grant proposals, creative activities; three letters of recommendation. Deadlines: application and transitio to: Dr. Carl E. Warren, Chairman, Department of Biology, Ball State University, Muncie, IN 47306. Applicants will be evaluated commencing 19 February 1988, and continue until position is filled.

Ball State University Practices Equal Opportunity in Education and Employment.

THE UNIVERSITY OF SYDNEY
AUSTRALIA

Lectureship in Animal Biology
Reference no. 51/01
School of Biological Sciences

Preference may be given to suitably qualified applicants with experience in fish biology and ecotoxicology, especially the ecology of fish. The appointee will undertake teaching at both undergraduate and postgraduate level and will be expected to develop research programmes in fish ecology. The position is available from 1 July 1988.

Appointments to lecturerships have the potential to lead to tenure and are usually probationary for three years.

Lectureship (Fixed-term)
Reference no. 51/02
School of Biological Sciences

Applicants will be expected to have a PhD in animal biology and have some postdoctoral experience in teaching and research. A broad biological interest is desirable, as teaching will be mainly in comparative zoology. Preference may be given to applicants with research interests in vertebrate biology, including functional morphology, parasitology, reproductive biology, endocrinology, taxonomy or behaviour. The appointment is for a fixed term commencing early 1988 until 31 December 1990.

Salary: commencing salary in the range $28,381–$32,127 per annum, with progression to $33,172 per annum.

Applications, quoting reference no., including curriculum vitae, list of publications and the names and addresses of three referees, to: The Registrar, Staff Office, University of Sydney, NSW 2006, Australia, by 5 February 1988.

The University reserves the right not to proceed with any appointment for financial or other reasons.

Equal employment opportunity is University policy.

POSTDOCTORAL RESEARCH POSITIONS
CELL BIOLOGY OF SECRETION
IMMEDIATE HYPERSENSITIVITY
NATIONAL INSTITUTES OF HEALTH

Postdoctoral positions are available for cellular and biochemical studies on the mechanisms of secretion from basophils and mast cells. Interest is in defining cell surface and other cellular components that are involved in immunoglobulin receptor mediated transmembrane signalling and the release of inflammatory mediators. Experience in tissue culture and biochemical techniques of protein separation are desirable. Appointments would be as Intramural Research Training Associates (United States citizens) for persons within 3 years of receiving their doctoral degree. These are renewable annually for a total of 3 years. Starting salary will be $20,000 per year or higher depending on previous experience. Alternative appointments for candidates with more experience will be made as research associates in the Staff Fellow program. Interested candidates should send a curriculum vitae and the names of 3 references to: Dr. Reuben Siragian, Clinical Immunology Section, Laboratory of Microbiology and Immunology, NIH, Bldg 10, Rm 1A23, Bethesda, MD 20892.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER
PERMANENT RESIDENCE OR U.S. CITIZENSHIP REQUIRED

22 JANUARY 1988
BIOLOGIST: Assistant Professor, tenure-track. Start August 1988, Ph.D. required. Teach genetics, cell biology, physiology, cell biology, anatomy, develop specialty and interdisciplinary courses; conduct modest on-site student oriented research. By 19 February 1989, one resume, three references letters, transcripts, research plans, and evidence of undergraduate teaching effectiveness to: Dr. Betty Baker, Biology, Belmont Abbey College, Belmont, NC 28012. An Affirmative Action/Equal Opportunity Employer.


CELL BIOLOGIST. The Bard College Biology Department seeks a broadly trained biologist with research experience, preferably through the postdoctoral level, in cell biology, developmental biology, or invertebrate physiology. Candidates with experience in genetic approaches to these areas will be preferred. Candidates must have a commitment to quality undergraduate science education. The college is diversity-oriented and encourages applications from all candidates, at an institution where interactions with non-science students and faculty are common, but also where approximately half of the undergraduate biology majors go on to graduate programs. The successful candidate will be expected to teach cell biology, immunology, development biology, and a course in a regular basis, and to conduct research in one of these areas. The candidate should be prepared to involve students in senior project research, and to develop courses for non-scientists which offer laboratory experience. Salary and rank will be commensurate with experience. Please send curriculum vitæ, transcripts, and two letters of recommendation to: Professor J. C. Howard, Department of Biology, Bard College, Annandale-on-Hudson, NY 12504 by 15 March 1987. Bard College is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities and women.

CELL BIOLOGIST PLANT TISSUE CULTURE. Del Monte USA is seeking a plant cell biologist to fill a Senior Scientist level bench position in its Agricultural Biotechnology Program. This program is part of Del Monte Food’s Research and Development Operations. The position will be located in Salinas, California. The Biotechnology Program contributes to Del Monte’s variety development efforts as well as to germplasm improvement projects on other R. J. Borona affiliates such as the Del Monte Tropical Fruit Company, Nabisco Brands, and R. J. Reynolds Tobacco Company.

The incumbent will develop fundamental tissue culture protocol for a taxonomically diverse array of crops. This protocol includes a regeneration system compatible with genetic transformation. The incumbent will be responsible for novel and creative scientific effective, in project management, and bench execution. The incumbent also will be responsible for interfacing with other variety development activities, including planting breeding and molecular biology, as well as for bridging these activities.

Applicants should have earned a Ph.D. and completed at least 1 year of postdoctoral research in cell biology, physiology, biochemistry, cellular genetics, or molecular biology, and have hands-on experience with plant regeneration and transformation research. Knowledge/experience in enzymology, molecular chemistry, cytogenetics, anatomic/biochemistry, computer science, and statistics will strengthen an application. Our management style is people-oriented, encouraging individuality in a team environment.

Applications, college transcripts and the name, address, and telephone number of four references should be sent to: Dr. Varien R. Tilton, Principal Scientist/Biotechnology, Del Monte USA, Agricultural Research Center, P.O. Box 36, Salinas, CA 93977.

DEAN, COLLEGE OF LIFE SCIENCES AND AGRICULTURE. UNIVERSITY OF NEW HAMPSHIRE (UNH) UNH seeks an energetic/innovative leader for its newly restructured College of Life Sciences and Agriculture which now includes all eight biological science departments as well as departments with emphasis in agriculture and natural resources. UNH is both a Land Grant/Sea Grant institution, with a total enrollment of approximately 10,500, 25 major curricula leading to B.S. or B.A. degrees, 13 M.S. programs, and 7 Ph.D. programs. The Dean has responsibility for: strengthening the College of the University, Thompson School of Applied Science, which offers six 2-year programs leading to an A.A. degree. Applicants should also have experience and an interest in teaching/scholarly advancement and demonstration of potential for administration. A letter of interest, curriculum vitae, and the names of five references are requested. Non-citizens must include current visa status. Salary will be competitive and commensurate with experience. Nominations and applications should be sent to: Joan Weeks, Office of VP for Academic Affairs, Thompson Hall, University of New Hampshire, Durham, NH 03824. Application screening begins 29 January 1988. UNH is an Affirmative Action/Equal Employment Opportunity Employer.

DEAN, UNIVERSITY OF MARYLAND AT BALTIMORE. Applications and nominations are invited for the position of Dean, the University of Maryland School of Medicine, Baltimore, Maryland. After 15 years as Dean, John M. Dennis, M.D., has announced his retirement effective 30 June 1988. During three years of service, Dr. Dennis had led the School of Medicine in extraordinary growth and development of its academic and clinical programs. Continuation of academic and clinical prominence will be aided greatly by the new Veterans Administration Hospital and new Shock-Trauma addition to the University of Maryland Hospital currently under construction on campus. Candidates should have a strong academic background and be qualified for the rank of professor. Experience in administration is highly desirable. The University of Maryland at Baltimore is a professional schools campus and includes Schools of Medicine, Dentistry, Nursing, Pharmacy, Law, and Social Work and Community Planning. Intra-disciplinary programs in progress and developing.

To assure consideration, nominations and applications, including academic résumés, and the names and addresses of three references, should be received no later than 28 February 1988 by the chairman of the Search Committee.

Carlyle Cremin, Jr., M.D., Chairman
Dean’s Search Committee
University of Maryland at Baltimore
50 West Lombard Street
Baltimore, MD 21201
UMAB is an Affirmative Action/Equal Opportunity Employer

DIRECTOR, LIMNOLOGICAL RESEARCH CENTER. UNIVERSITY OF MINNESOTA As a consequence of the retirement of Professor Herbert Wright as Director of the Limnological Research Center (LRC), the School of Sciences of the University of Minnesota has named a new Director of the LRC. The LRC is an interdisciplinary center engaged in the study of lakes worldwide. Research in the center encompasses the full range of lake studies. We seek a new director who can maintain and expand a highly successful program based upon external funding. The Director will be a full-time faculty member at the professorial rank in the Department of Geology and Geophysics with appropriate responsibilities for direction of graduate students and teaching. The field of specialization of the new director is open. Although preference will be given to applicants with interest in the geological or paleoecological aspects of limnology. Minimum qualifications are 8 years of experience in academic administration. D. Ord. Send applications and the name and address of five referees to: G. H. Shaw, LRC Search Committee Chair, Department of Geology and Geophysics, University of Minnesota, 1166 Molecular Biology Drive SE, Saint Paul, MN 55455. Deadline for applications is 15 April 1988. The University of Minnesota is an Equal Opportunity Educator and Employer and a smoke-free campus and encourages applications from women and minorities.
Career Opportunities In Plant Biology

The Plant Genetics Department at Pfizer Central Research, in conjunction with numerous plant breeding stations worldwide, conducts research and development for DeKalb-Pfizer Genetics, a leading agricultural seed company. We invite applications from qualified scientists to join our multidisciplinary team focused on the genetic improvement of corn.

You must have either an MS or BS in an appropriate biological discipline with experience in one or more of the following areas:

- molecular biology
- plant transformation technology
- plant tissue culture, cell biology

In addition to a stimulating scientific environment, we offer a competitive compensation/benefit package and relocation assistance to an attractive southeastern Connecticut shore community. Qualified applicants should submit their resume with a list of technical proficiencies and the names, addresses and phone numbers of three professional references to:

Mrs. Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.

Pfizer
An equal opportunity employer

AAAS Memberships and Subscriptions

- Whenever you write us about your membership or subscription, please attach a Science address label to ensure prompt service.

- Mail to: Membership and Subscription Records, AAAS, 1333 H Street, NW, Washington, D.C. 20005.

- Change of Address: Please provide 6 weeks' notice. Paste an address label from a recent issue in the space provided. Print new address below.

- Query: If you have a question, place your address label here and attach this form to your letter.

- To join or subscribe: Mail this form with your payment, mark the appropriate boxes, and print your name and address in the space below. (For renewals, attach label.)

- Membership rates (individual only)
  - $65 USA
  - $97 Canada
  - $92 Foreign
  - $130 air-surface delivery via Holland

- Subscriber rates
  - $98 USA
  - $130 Canada
  - $125 Foreign
  - $163 air-surface delivery via Holland

- Payment enclosed  Bill me later

Name Please print
Address
City State Zip SA16R81

ATTACH LABEL HERE

Improving the quality of life is our business.

Staff Toxicologist

We currently seek a Staff Toxicologist to manage acute and subchronic toxicity tests to be performed at contract laboratories. Responsibilities will include writing protocols, monitoring studies, interpreting data, and writing reports and summaries. The successful candidate will also serve as an in-life investigator for studies performed within Glaxo Inc. after construction of our toxicology facility.

A Ph.D. or equivalent degree is required, as well as 3-5 years' experience as a toxicologist in the pharmaceutical or chemical industry. D.A.B.T. certification is desirable.

Glaxo offers highly competitive salaries, outstanding advancement potential, and superior benefits, including a complete recreation and fitness program. For prompt consideration, please send your resume, including salary history and the types of products with which you have had experience, to: Department 8100X819, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. An Equal Opportunity Employer M/F/H/V (No phone calls, please) No private agency referrals, please.
OPEN POSITIONS

CLINICAL ANDROLOGIST

The Clinical Laboratory of the Brigham and Women’s Hospital is seeking an experienced andrologist to supervise the division of sperm and semen analysis. This individual will be responsible for the laboratory’s quality control, sensitivity (semen analysis, hamster egg test, immunologic testing), develop new test technology, and provide consultation to active infertility and in vitro fertilization programs. A Ph.D. or M.D. with at least 1 year of experience in clinical andrology. Academic appointment in an appropriate department at the Harvard Medical School is possible. Send resume to: Dr. Robert Barbieri Reproductive Endocrinology Laboratory Brigham and Women’s Hospital 10 Vartan Street Boston, MA 02115 Equal Opportunity Employer.

DEPARTMENT HEAD AND SENIOR RESEARCH AGRONOMIST

The Experiment Station of the Hawaiian Sugar Planters’ Association (HSPA) invites applications for a senior research agronomist and head of the department of Crop Science. The Experiment Station is located in Aina, Hawaii, near Honolulu, on the Island of Oahu. The Crop Science Department conducts research in agronomic, soil, and other related systems. It provides an academic atmosphere for scholarly work by staff and visiting scientists. The LPI also serves as a major source of information and a resource for the research and development of the state’s agricultural and forest industries. The position is immediately available with an attractive salary and excellent benefits. Closing date for applications is 1 March 1988. Applicants should send their curriculum vitae to: Paul H. Moore, Search Committee, Experiment Station, Hawaiian Sugar Planters’ Association, P.O. Box 1087, Aina, HI 96701. Telephone: 808-487-5661. Affirmative Action/Equal Opportunity Employer.

DIRECTOR LUNAR AND PLANETARY INSTITUTE

A search is being conducted for a Director of the Lunar and Planetary Institute (LPI). The LPI is a unique facility for study of the formation, evolution, and current state of the moon and other solar system objects. It provides an academic atmosphere for scholarly work by staff and visiting scientists. The LPI also serves as a major source of information and a resource for the research and development of the state’s agricultural and forest industries. The position is immediately available with an attractive salary and excellent benefits. Closing date for applications is 1 March 1988. Applicants should send their curriculum vitae to: Paul H. Moore, Search Committee, Experiment Station, Hawaiian Sugar Planters’ Association, P.O. Box 1087, Aina, HI 96701. Telephone: 808-487-5661. Affirmative Action/Equal Opportunity Employer.

OPEN POSITIONS

ENERGY POLICY

Position in The Science and Public Policy Program, with joint appointment in an appropriate department of engineering or geosciences. Salary open and tenure-track position available if desired; preferred rank is ASSISTANT OR ASSOCIATE PROFESSOR. Duties begin in August 1988. Job requirements include completion of Ph.D. by start date. Knowledge and experience in urban and/or environmental policy and politics, and ability to secure funds. Applications of interest in policy research and science/technology policy are preferred. Job responsibilities include policy research, teaching, and research supervision or mentorship. Send three letters of reference to: Steve Ballard, Director, Science and Public Policy Program, 601 Elm Avenue, Room 431, University of Oklahoma, Norman, OK 73093. Deadline is 1 March 1988.
An Equal Opportunity/Affirmative Action Employer.

OPEN POSITIONS

FACULTY RESEARCH POSITION

We seek an outstanding biologist to conduct a basic research program on the biology of aquatic animals and to cooperate with a development team on aquatic culture and processing. Position is open in the Department of Animal Science at North Carolina State University (NCSU). We will consider candidates from a broad range of disciplines. Twelve-month, tenure-track position, preferably at the rank of assistant professor. Salary competitive. Applicants will be expected to maintain a productive research program and participate in graduate training. A Ph.D. is required and postdoctoral experience is a plus. Applications must be received by 1 March 1988 or until filled. Send curriculum vitae, three letters of recommendation, selected publications and a statement of research interests and interdisciplinary relevance to: Chair, Aquatic Research Search Committee, North Carolina State University, Zoology Department, Campus Box 7617, Raleigh, NC 27695. NCSU is an Affirmative Action/Equal Opportunity Employer.

FIELD/GREENHOUSE TECHNICIAN

Position is open in the Bioscience Section for an individual with a B.S. or M.S. degree in a plant science-related field, and preferably with experience in field and/or greenhouse research. Skills required will include accurate observation and data collection, understanding of good experimental technique, assist in the interpretation of results, maintenance of seed inventories, as well as the basic methods of greenhouse and field supervision. Position may occasionally require some laboratory research. Preference will be given to individuals with a strong interest in aquaculture. The successful applicant will be working closely with the aquatic science team on the Long Island Sound Center, a partnership between Montclair State College and the City of New York. Send résumé and letter of application to: The Bioscience Section Secretary, Garst Seed Company, P.O. Box 500, Slater, IA 52050. When responding use reference number EB-4.

FRESHWATER MANAGEMENT

The Department of Biological Sciences of the University of British Columbia, and the Montreal Science and Environment Research Institute invites applications from Ph.D. level scientists for a full-time state-supported research position at the rank of assistant professional scientist. Preference will be given to applicants with experience in fish population dynamics and community ecology. The successful candidate will be expected to attract extramural funding and to develop an innovative research program. Residence for this position is located at the Lake Shelburne field laboratory, 70 miles south of Champaign. Send résumé, a statement of future research interests, and the names, addresses, and telephone numbers of at least three referees to: Dr. David F. Philipp, Aquatic Biology Section, Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820-244-5055. Applications will be accepted until 15 February 1988, or until the position is filled. The State of Illinois is an Equal Opportunity/Affirmative Action Employer.

MICROBIOLOGY—Full-time position, RESEARCH TECHNICIAN IV, available immediately. The position is to work closely with a chemist studying fruit and vegetable biotechnology and biochemistry. Applicants must have a bachelor’s degree in microbiology or related field with 2 years of experience in a laboratory setting and 1 year of experience in glassware handling. Salary range is $12,000-$15,000. Send résumé and letters of reference to: Dr. Robert Wiener at 404-651-3125 for additional information. Georgia State University, a unit of the University System of Georgia, is an Equal Educational and Employment Opportunity Institution.
**Faculty Position**

Department of Urology
Mayo Clinic

Tenure Track Position in Urologic Cancer Research, Cell Biology/Cancer Immunology/Molecular Biology. Ph.D. or M.D. to establish and direct a research laboratory.

Please submit resume to:
P. P., Kelalis, M.D.
Chairman, Department of Urology, Mayo Clinic, Rochester, MN 55905

Mayo Foundation
Rochester, Minnesota 55905

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**NATIONAL INSTITUTES OF HEALTH**

Service Fellow Positions

The positions are located in the Pulmonary Pathobiology Laboratory of the Division of Intramural Research, National Institute of Environmental Health Sciences (NIEHS), in the Research Triangle Park, North Carolina. Incumbents will design and conduct studies on the mechanisms of neoplastic transformation. Particular emphasis will be placed on molecular processes underlyng the phenotypic changes during multistage carcinogenesis, alterations in growth factor production and expression of growth factor receptors.

Applicants should have a Ph.D. or equivalent and a background in carcinogenesis, developmental biology, cell differentiation or regulation of cell replication. Research experience in molecular biology, regulation of gene expression, growth factor and growth factor receptor biochemistry, or biochemical regulation of cell differentiation is required.

The initial appointments are for two years with additional annual extensions up to 5 years for a talented researcher with salary ranges between $20,000 and $37,000, commensurate with experience. Please send curriculum vitae and a statement of research interests and laboratory experience to:
Elena D'Orazio (Code: HNV26)
NIEHS Personnel Office
PO Box 12233
Research Triangle Park, NC 27709

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**ASSOCIATE/FULL PROFESSOR**

Senior Behavioral Scientist
University of Minnesota

The Division of Epidemiology School of Public Health, University of Minnesota seeks a full-time tenure-track or tenure Associate or Full Professor as a Senior Behavioral Scientist.

Specific requirements for the position are: 1) earned doctoral degree, 2) extensive research experience on health behavioral phenomena in populations, and 3) teaching experience including curriculum development and doctoral student advising. Primary criteria for appointment must be demonstrated ability through grant awards for significant research, demonstrated skills in research administration, a relevant publication record in peer-reviewed journals, and evidence through student evaluations of successful teaching. The Associate Professor level would require at least five years of post-doctoral research and teaching experience; the Full Professor level requires at least ten years' experience.

Primary responsibilities of this position will be to pursue a full academic program of research and training for the Community Health Education and Behavioral Epidemiology researches and demonstrations of the School of Public Health. Leadership in Health Education and Behavior courses of the School is required, with participation likely in the following courses: Behavioral Epidemiology PH 5391, Analysis of Alcohol/Drug Problems PH 5440, and Public Health Approaches to Health Behavior Change PH 5392. Advising master's, doctoral and post-doctoral students is also required.

The position is available on or about July 1, 1988. Interested applicants should submit a curriculum vitae, publications list, and a list of at least three references by April 1, 1988, to Dr. Ronald Prineas, c/o Kathy Ramel, Division of Epidemiology, School of Public Health, University of Minnesota, Stadium Gate 27, 611 Beacon St., SE, Minneapolis, MN 55455.

Please reference Job Number 283.

The University of Minnesota is an equal opportunity educator and employer and specifically invites and encourages applications from women and minorities.

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**POSTDOCTORAL POSITION**

Immediately available for Ph.D. Cellular Immunologist or Biologist to study human antibody formation in vitro and for production of human monoclonal antibodies. Prior research experience in Immunology or related field required.

**Write to:**

PD Dr. Kurt Blaser
Laboratory of Molecular Immunology
University of Berne
Freiestrasse 3
CH-3012 Berne / Switzerland

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**Research Scientists**

Molecular Genetics

Pfizer, a U.S. based multinational pharmaceutical company, is seeking qualified scientists to expand its Molecular Genetics Department. These positions involve original experimental research into the application of molecular biology skills to exploratory biomedical research projects.

You must have an MS or BS degree with relevant postgraduate experience and the desire to work independently in one of the following areas:

**Cell Biologist:** Experience in recombinant DNA methodology, tissue culture or virology. You will conduct experiments in the antiviral research area.

**Mammalian Molecular Biologist:** Experience with mRNA isolation and cDNA library construction/characterization. You will conduct research in either the metabolic or cancer research areas.

**Molecular Biologist:** Experience in protein purification and/or cell culture together with relevant expertise in the transcriptional regulation area. You will study transcriptional regulation in the metabolic disease area.

In addition to a stimulating scientific environment, we offer a competitive compensation/benefit package and relocation assistance to an attractive southeastern Connecticut shore community. Please send a resume, description of research experience and names of three references to: Mrs. Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.
NATIONAL SCIENCE FOUNDATION

NSF's Divisions of Cellular and Molecular Biosciences are seeking qualified applicants for Program Officers under the provisions of NSF's Rotator Program. Since responsibilities include research proposal evaluation, budget development and scientific planning, broad knowledge and specific research accomplishment are key qualifications. The positions are excepted from the competitive civil service and are filled on a one- or two-year rotational/temporary basis. The positions become available periodically and will be filled beginning in the summer or fall, 1988. The per annum salary ranges from $27,172-$72,500, depending upon the level of responsibility.

In Cellular Biosciences, there are openings in: (1) Cell Biology; (2) Developmental Biology; (3) Eukaryotic Genetics; and (4) Regulatory Biology. In Molecular Biosciences, there are openings in: (1) Biochemistry; (2) Biological Instrumentation; (3) Metabolic Biology; and (4) Prokaryotic Genetics.

Applicants should send resumes to: National Science Foundation, Personnel Administration Branch, Room 212, 1800 G St. NW., Washington, DC 20550, Attn: Catherine Handle. For further information call Dr. Mary Clutter, Cellular Biosciences (202) 357-7905 or Dr. James H. Brown, Molecular Biosciences (202) 357-9400. Hearing impaired individuals should call (202) 357-7492. NSF is an Equal Opportunity Employer.

DIRECTOR, DIABETES RESEARCH INSTITUTE

Eastern Virginia Medical School invites applications and nominations for the position, Director, Diabetes Research Institute. The Diabetes Research Institute is part of a comprehensive regional diabetes center that also includes clinical and educational components. The Institute has already received substantial initial support through an aggressive local and national fund-raising effort. The successful candidate will possess an extensive academic background, an established record of excellence in diabetes research and the skill, capacity, and entrepreneurial instinct to assure the long-term success of the Research Institute. Responsibilities of the position include developing a research program that will make significant contributions to the field of diabetes as well as directing research projects, program administration, and outreach. Full faculty status and benefits are available; conditions and salary are negotiable. Please reply to:

Leon P. Georges, M.D.
Acting Center Director
The Diabetes Center of Eastern Virginia
P.O. Box 1980
Norfolk, Virginia 23501

Scientific Opportunities

Take an important role in the promise of tomorrow with the DuPont Company. We're a world leader in the manufacture and distribution of radiolabeled compounds and systems used in scientific and medical research. As a dynamic, Fortune 100 company, our commitment to advancing quality of life is reflected in the stable, rewarding environment we provide for our employees, and in the fine career opportunities we offer you.

Molecular Biologist

This position will develop new molecular biology products and improve production methods for the Research Products Division. Examples of products to be developed and improved are oligonucleotide probes and DNA hybridization reagents, cloning vectors, labeled nucleotides, DNA sequencing products, and reagents for protein translation. DNA techniques, such as cloning and sequencing, are highly desirable. This position requires a Ph.D in Molecular Biology.

Lipid Chemist

The focus of our research and development concerns biologically active lipid research products. Responsibilities will include synthesis, purification and characterization of complex lipids. A Ph.D in Biochemistry/Organic Chemistry is required with a strong background in both organic and enzymatic synthesis. Relevant experience in biochemistry/organic chemistry, immunology, pharmacology or related applications of synthesis of biomolecules is expected. Demonstrated ability for innovative synthesis and purification of lipids is a must.

Immunossay Chemist

This position will involve the development of immunossay kits and reagents for products intended for the research market. The person will oversee antibody production, optimize immunossays, act as a liaison for transfer of new kits from development into manufacturing and support this product line through customer interactions and consultations. Requires a Ph.D in Immunology, Biochemistry or Bioanalytical chemistry.

Interested, qualified candidates please forward your resume to:
Janice Bubbers, DuPont, 549 Albany St., Boston, MA 02118.

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DEPARTMENT CHAIRPERSON
MICROBIOLOGY AND CELL SCIENCE
THE UNIVERSITY OF FLORIDA

The University of Florida is seeking applicants for the Chairperson of the Department of Microbiology and Cell Science, the primary basic sciences department in the College of Agriculture, Institute of Food and Agricultural Sciences.

The Department of Microbiology and Cell Science is responsible for the largest undergraduate major in biological sciences at the University of Florida, and includes strong graduate education and research programs.

The successful candidate will be expected to have an earned doctorate in Microbiology or related field, to lead an expanding Department in the pursuit of excellence, and to maintain an active research program.

We invite nominations of, or applications from individuals with a strong record of achievement in scholarship and research.

Interested individuals should provide a letter of application, a curriculum vitae, a brief description of current activities, and a list of three or more colleagues from whom letters of reference may be solicited.

Address all correspondence concerning this position to: Lonnie O. Ingram
Search Committee Chairman
1059 McCarty Hall
University of Florida
Gainesville, Florida 32611

The closing date for applications is May 15, 1988. The University of Florida is an Affirmative Action/Equal Opportunity Employer.
**POSITIONS OPEN**

The Department of Pediatrics, Wright State University School of Medicine and the Children’s Medical Center, Dayton, Ohio are seeking a third GASTRONOMER. This is a full-time faculty position at the assistant professor level. Applicants must be licentiate to practice medicine in Ohio, Board-eligible or certified in pediatrics and completing a 2- or 3-year fellowship in pediatric gastroenterology. The successful candidate will be capable of performing all common disarrangements procedures, conducting independent research in the areas of choleratic liver disease or disarrangements, and skills in the teaching of medical students and residents. Applications received by 15 February 1988 will be considered; if the position is not filled thereafter, applications will be considered. Interested candidates should send curriculum vitae and references to: Stephen L. Newman, M.D., Director, Division of Gastroenterology and Nutritional Support, Department of Pediatrics, Wright State University School of Medicine, The Children’s Medical Center, One Children’s Plaza, Dayton, OH 45404-1815.

**MARINE SCIENTIST**

**THE INTERUNIVERSITY INSTITUTE OF EILAT, ISRAEL**

Invites applications for one and possibly more, full-time tenure-track faculty positions at a junior or senior level, in the following areas:

1. **MARINE BIOLOGY**
2. **MARINE CHEMISTRY**

The successful scientist will be affiliated with the Hebrew University of Jerusalem. The candidate(s) will be expected to conduct independent research in the Red Sea and take part in the teaching program of the Interuniversity Institute. Preference will be given to applicants with postdoctoral experience in marine biology, list of publications, future research objectives, and three letters of recommendation.

Professor B. Luz
Scientific Director
The Interuniversity Institute of Eilat
P.O. Box 469
Israel, 88103

Closing date for applications is 1 March 1988.

**MEDICINAL CHEMISTRY/ MOLECULAR PHARMACOLOGY**

**DEPARTMENT OF PHARMACY**

**UNIVERSITY OF TORONTO**

Applications are invited for an ASSISTANT PROFESSOR tenured-stream position beginning 1 July 1988 or thereafter. The successful candidate will be expected to establish an independent research program related to the structural and mechanistic determinants of drug action. Individuals with interests and experience in the study of macromolecular structure and function are encouraged to apply. Participation in the supervision of graduate students and in the teaching of graduate courses is required. The appointment is expected to lead to tenure in the Department of Chemistry at the undergraduate level.

Within the University of Toronto interdepartmental collaboration is strongly encouraged and is supported at the graduate level by cross-appointments, a system of joint courses, and interdisciplinary programs. Start-up support is available from faculty and university sources. The successful candidate is likely to hold a Ph.D. degree and to have at least 2 years of postdoctoral experience. Interested persons should submit a current curriculum vitae, a list of publications, and three letters of reference by 15 March 1988 to: Dean D. G. Perrier, Faculty of Pharmacy, University of Toronto, 102 College Street, Toronto, Ontario, MSS 1A1, Canada.

Applications will be considered beginning 15 April 1988.

In accordance with Canadian Immigration requirements, priority in the first instance will be given to Canadian citizens and landed immigrants. In accordance with the Employment Equity Plan of the University of Toronto, applications are invited from all qualified women and men.

**POSITIONS OPEN**

**MARINE POSTDOCTORALS**

Two postdoctoral positions are available at the Interuniversity Institute of Eilat, Israel; The H. Steinzt Marine Biology Laboratory. The positions are:

1. Zooplankton or phytoplankton ecology; coral reef ecology.
2. Eco-physiology and biochemistry of marine and hypolimnic organisms.
3. Carbonate chemistry of hypersaline environments.

The positions are available for a period of 1 year and may be truncated, if necessary. The successful candidates are expected to carry out independent research in affiliation to ongoing research programs in Eilat. Submit curriculum vitae, list of publications, a description of research interests, and three letters of recommendation to:

Professor B. Luz
Scientific Director
The Interuniversity Institute of Eilat
P.O. Box 469
Eilat
Israel, 88103

The closing date for applications is 1 March 1988.

**MOLECULAR CELL BIOLOGIST**

Tenure-track assistant/associate professor, fall 1988. Requires Ph.D. in cell biology or closely related discipline. Responsibilities include teaching molecular cell biology, general biochemistry, participation in general biology program, and recruiting and supervising candidates. Rank and salary depend on experience. Send curriculum vitae, a brief statement of research interests, graduate transcripts, and three letters of recommendation should be sent by 15 February 1988 to: Dr. Leonard Robertson, Chair of Search Committee, Department of Biological Sciences, P.O. Box 120, 5000A, East Tennessee State University (ETSU), Johnson City, TN 37614. ETSU is an Equal Opportunity/Affirmative Action Employer and employs only U.S. citizens and aliens authorized to work in the United States.

**MOLECULAR GENETICIST**

Children’s Hospital and Health Center is interested in recruiting a junior faculty level molecular geneticist to manage its Molecular Diagnostics Laboratory and to conduct independent research. Responsibilities include teaching, graduate mentorships, and general research supervision. Send curriculum vitae, list of publications and reference letters to: Deanna Pietak, Human Resources Department, Children’s Hospital and Health Center, 8001 Frost Street, San Diego, CA 92123. For additional information, call: Dr. J. Mascarello at 619-576-8089, an Equal Opportunity Employer.

**MOLECULAR SYSTEMATIST POSITION**

**SMITHSONIAN INSTITUTION**

The National Museum of Natural History, Smithsonian Institution, is seeking a systematic or evolutionary biologist who specializes in molecular or biochemical techniques. Applicants must have an active research program in systematic or evolutionary biology, and expertise in a variety of molecular and product-chemistry techniques. Preference will be given to candidates with postdoctoral experience using nuclear acid methodologies.

This position will be located in the Laboratory to be established at the Museum Support Center in Suitland, Maryland. Salary and grade level of this position will be commensurate with experience and/or education. The incumbent may also serve as Laboratory director. Anticipated starting date is no later than October 1988. Send curriculum vitae, list of publications and reference letters to: Deanna Pietak, Human Resources Department, Children’s Hospital and Health Center, 8001 Frost Street, San Diego, CA 92123.

**POSITIONS OPEN**

**MOLECULAR BIOLOGY**

**CELL PHYSIOLOGY**

**DEPARTMENT OF BIOLOGY**

The Department of Biology invites applications for two tenure-track positions at the assistant professor level to begin during the 1988 to 1989 academic year. One position is in cell physiology and genetics, the other in molecular biology. The applicants are expected to have postdoctoral experience. The department has strong programs in experimental botany, genetics, and graduate research in neuroscience, physiology, biochemistry and developmental, molecular and cell biology, and genetics. The appointee is expected to maintain independent research programs and contribute to both graduate and undergraduate education. Interaction between faculty at both the teaching and research levels is encouraged. Please send curriculum vitae, copies of representative publications, a summary of previous and proposed research, and the names and addresses of three people who can be contacted about your qualifications to: Dr. Robert Smithson, Department of Biology, 015-06, Temple University, Philadelphia, PA 19122. Closing date for application is 30 April 1988. Applications will be reviewed upon receipt. Temple University is an Equal Opportunity/Affirmative Action Employer.

United States Department of Agriculture (USDA), Agricultural Research Service (ARS), NMR SPECTROSCOPIST position at the Northern Regional Research Center, Peoria, Illinois. Candidate will operate a new Bruker MSL 300 solid-state NMR spectrometer equipped with a CRAMPS probe, as well as other probes for cortical NMR and biochemistry studies; and will participate with multidisciplinary teams (i) investigating molecular dynamics of phospholipids and enzyme interactions in plant cell membranes, (ii) characterizing plant components such as sugar polysaccharides, and (iii) determining structure of lipid films and coatings and starch-synthetic polymer composites. Applicants need a working knowledge of physical, organic, polymer, and analytical chemistry and an in-depth knowledge of solid-state NMR spectroscopy. All work will be conducted in chemistry with computer use required. A Ph.D. degree in chemistry or related discipline is required. Position is a permanent position with beginning salary of $32,567 (GS-12). For additional information on the position, contact: Renee Gardner, USDA/ARS/NRRC, 1815 North University Street, Peoria, IL 61604. Telephone: 309-685-4011. For information on application procedures contact: Barbara Lamm, USDA/ARS, Personnel Operations Branch, North Central Section, Building 419, BARC-East, Beltsville, MD 20705. Telephone: 301-822-6211. Applications in response to this advertisement should be marked RNSO and sent to: Barbara Lamm. Applications must be received by 1 April 1988. Application is an Equal Opportunity Employer.

**PHARMACOLOGIST:** The Department of Physiological Sciences, College of Veterinary Medicine, invites applications for a tenure-track assistant professor level position in pharmacology (VM8704), available 1 July 1988 or thereafter. The Ph.D. degree in pharmacology or related discipline is required. Responsibilities include development of a high quality independent research program and teaching in basic pharmacology. Curricula vitae, including citizenship status, the names of three references, and a statement of career goals should be submitted by 1 April 1988 to: John U. Bell, Chairman, Search Committee, Department of Physiological Sciences, College of Veterinary Medicine, Box J-144, VMUSC, University of Florida, Gainesville, Florida 32610-0144.

**POSTDOCTORAL POSITION open now to study de novo assembly of a simple human virus. Requires expression of hepatitis B viral antigens in frog oocytes and mammalian cells, study of interactions between viral and cellular proteins, and expression of viral RNA and subviral structures [Standing et al., PNAS 83, 9386 (1986)].**

HRI (Director, William J. Rutter) employs state-of-the-art methods to study complex biological problems. Candidates with background in Molecular or cell biology experience essential. Curricula vitae and reference to: Dr. David Stanwood, Human Research Institute, Department of Biochemistry and Biophysics, University of California, San Francisco, CA 94143-0534. Telephone: 415-476-8548. HRI is an Equal Opportunity/Affirmative Action Employer.
Research Opportunities In

- PHARMACOLOGY
- PATHOLOGY and
- TOXICOLOGY

At the new Rorer... we're focusing on the future!

Rorer Central Research, located in suburban Philadelphia, PA is emerging as a vibrant "can do - will do" organization committed to becoming a world class pharmaceutical industry leader. We have several immediate openings in our Drug Safety and Discovery Groups.

DRUG SAFETY OPENINGS:

- **Department Manager, Toxicology** – Reporting directly to the Director, Toxicology, the successful candidate for this important mid-level management position will direct the activities of a staff of supervisors, scientists and technicians; design, conduct and review preclinical toxicology studies and interact with the FDA and/or other regulatory bodies. A PhD in Toxicology or related field is required with a minimum of one year formal post-doctoral training and 5 years industrial experience in toxicology. This experience must include interaction with federal regulatory agencies, preparation of IND's and NDA's and supervision of drug safety laboratory functions.

- **Veterinary Pathologist** – The incumbent will report to the Director, Pathology and will participate in the design and interpretation of routine drug safety/toxicity assessment studies as well as special studies to investigate mechanisms of toxicity. Our successful candidate will have a DVM plus a residency or graduate training in veterinary pathology and be ACVP certified. Ideally, the candidate will also have a minimum of 2 years experience in toxicologic pathology and an interest in clinical pathology.

DISCOVERY, CARDIOVASCULAR PHARMACOLOGY OPENINGS:

- **Research Scientists** – The two immediate opportunities in Discovery are in cardiovascular pharmacology, each requiring a PhD in Pharmacology or related field and at least 2 years experience beyond the PhD. One incumbent will concentrate on atherosclerosis; the other will concentrate on hypertension/myocardial ischemia. Both will need a demonstrated expertise of the respective disease process, be capable of introducing and developing novel research programs, and establish in vivo models.

Rorer offers a competitive salary, a fully paid benefits package and a work environment which offers opportunity for professional growth. Qualified applicants should submit resume to Barbara F. Lippmann, Rorer Central Research, 940 Allendale Road, King of Prussia, PA 19406. Equal opportunity employer, M/F.

Rorer Central Research
Focus on the future.
POSITIONS OPEN

PLANT AQUATIC ECLOGIST

The Augustana College Biology Department has a tenure-track opening for an assistant professor (Ph.D.) in September 1988. Applicants must be prepared to teach aquatic ecology/evolution, general botany, and an introductory biology course. Staff members are expected to maintain active research programs that involve undergraduates. Augustana College is a liberal arts college related to The Evangelical Lutheran Church in America. Applications should include curriculum vitae, complete descriptions of research programs, and evaluation including critical comments on past teaching performance and research ability, and the applicant's statement of plans for professional development. Applications accepted until 1 February 1988, or until position is filled. Send applications to: Mrs. Jeanne Kruse, Administrative Assistant, Augustana College, Sioux Falls, SD 57197.

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE to study herpes virus replication. Recent Ph.D. or M.D. Experience needed in molecular biology, genetics, virology. Send curriculum vitae and references to: Dr. Denise Galloway, Fred Hutchinson Cancer Research Center, 1124 Columbia Street, Seattle, WA 98104.

Equal Employment Opportunity/Affirmative Action Employer M/F/H.

POSTDOCTORAL POSITION ANTITUMOR DRUG RESISTANCE

Postdoctoral position immediately available for 3 years to study determinants of resistance to antitumor drugs in multidrug resistant cell lines. Emphasis of ongoing studies include investigations on cellular pharmacology, modulation of cytotoxic response, and regulation of calcium-dependent drug resistance and phosphorylation systems. Applicants should have a Ph.D. in pharmacology, biochemistry, or cell biology. Salary is competitive and commensurate with experience. Send curriculum vitae and names of three references to: Dr. Ram Ganapathi, Research Institute, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44106.

POSTDOCTORAL POSITIONS. To join a multidisciplinary group consisting of eleven faculty interested in mechanisms of hemostasis, fibrinolysis, and thrombosis involving both basic research and clinical investigation. Areas of study from which to choose include (i) assembly, function, and regulation of supermolecular enigmatic complexes on both synthetic and physiological surfaces, (ii) relationships between protein structure and function in the development of clotting, (iii) isolated cell populations, (iv) synthetic polypeptides, and immunological probes, (v) cell biology of hemostasis, (vi) platelet intracellular signaling, and (vii) diagnostic assay development. These positions provide valuable training in an area of interest to the academic community, biotechnology, and the pharmaceutical industry. Send curriculum vitae, selected papers and names of three references to: Kenneth G. Mann, Ph.D., Professor and Chairman, Department of Biochemistry, Director, Specialized Center of Research in Thrombosis, College of Medicine, Givens Building, University of Vermont, Burlington, VT 05405-0068.

POSTDOCTORAL POSITIONS ($20,000 to $22,500) available immediately to study: (i) Acute and chronic cardiovascular actions of CNS stimulant/local anesthetic drugs, with emphasis on animal models. R. D. Wilkerson, Ph.D. and (ii) Regulation of neurotransmitter and drug receptors, relation to behavior. H. C. Rosenberg, M.D., Ph.D. Applicants should send curriculum vitae and names of references to: Department of Pharmacology, Medical College of Ohio, C.S. #10008, Toledo, OH 43699.

POSTDOCTORAL/RESEARCH ASSOCIATE position available immediately to study, characterize, understand, control, and manipulate development and immunoglobulin gene expression at the cellular and molecular levels. Send curriculum vitae and names of three references to: Dr. Owen W. Witte, Howard Hughes Medical Institute Molecular Biology Institute, UCLA, Los Angeles, CA 90024-1570.

POSITIONS OPEN

POSTDOCTORAL POSITION IN STREPTOMYCETES to investigate nitrogen regulation of glutamine synthetase in both spontaneous and constitutive mutants. Position available immediately. Experience in molecular biology, genetics, and protein purification desirable. Send curriculum vitae and three references to: Dr. Samuel Fisher, Department of Microbiology, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118.

Affirmative Action/Equal Opportunity Employer.

TWO POSTDOCTORAL POSITIONS available immediately; one to study organic DNA segregation and recombination in cryptophyte hybrids formed by fusion of plant protoplasts, the other to study gene expression in plant mitochondria. Successful applicants will join a research group whose findings have been commented on recently in Science (233, 624 (1986)). Applicants for the former position should have experience in plant tissue culture, for the latter in nucleic acids and recombinant DNA techniques. Send curriculum vitae and names, addresses and telephone numbers of two referees to: Dr. Gregory G. Brown, Department of Biology, McGill University, 1205 Doctor Penfield Avenue, Montreal, P.Q., Canada H3A 1B1.

PROFESSOR AND DIRECTOR CENTER FOR STREAMSIDE STUDIES IN FISHERY, FORESTRY AND WILDLIFE

The College of Ocean and Fisheries Sciences and the College of Forestry and Wildlife Resources at the University of Washington, invite applications for the position of Director of the recently established Center for Streamside Studies. This position is a 2-year, renewable appointment available immediately with rank dependent upon qualifications. The initial appointment is for a period of 5 years.

The Center for Streamside Studies (CSS) is an interdisciplinary (Fisheries, Forestry, Wildlife) program supported by a combination of private and state funds, and cooperative research programs of the USDA Forest Service and USDI Fish and Wildlife Service (more information on Center available upon request).

The candidate must have a Ph.D. in fisheries science, forestry, or wildlife management or related fields, with demonstrated research and publications in one or more of these areas. The candidate is expected to have experience in developing or administering programs in the natural resource area.

The successful candidate will be expected to: (i) expand the Center's teaching and research program in riparian zones in relation to forest, wildlife, and fisheries management (particularly in the management of the salmonids), (ii) assist in developing stable funding mechanisms, (iii) complete an initial phase of related research, (iv) develop a bibliographic database, (v) provide leadership in enhancing the Center's role as a link between the fisheries and wildlife professions and the timber industry, (vi) assist with the development and implementation of a curriculum, and (vii) extend the research program to other aquatic ecosystems.

Interested applicants should send curriculum vitae, statement of research and education interests, reprints of three publications, and three or more letters of recommendation to: Gerard Schreuder, Chair, Search Committee, College of Forest Resources, AR-10, University of Washington, Seattle, WA 98195. Telephone: 206-543-6920. Deadline March 1988.

Max Application: 1 April 1988.

The University of Washington is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

The Department of Biochemistry and Biophysics of the University of Pennsylvania invites applications for a Postdoctoral FELLOW/RESEARCH ASSISTANT PROFESSOR. Applicants should have a strong background in inositol phospholipid metabolism including expertise in single cell fluorescence microscopy, electron microscopy, HPLC, and protein purification. Postdoctoral experience in these areas necessary. Candidates should forward curriculum vitae, a summary of research experience and publication record, a list of current research, and three letters of reference to: Franz Machaczynski, M.D., Chairman, Department of Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, PA 19104–6059. Deadline for applications is 1 March 1988. The University is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority candidates.

POSTDOCTORAL POSITIONS ON BEHAVIORAL NEUROSCIENCE TRAINING GRANT available immediately in Biochemistry and Biophysics at the University of Illinois at Urbana-Champaign. Laboratories include those of Michael Gabriel (electrophysiology of learning), Martha Gillies (neuroendocrinology of circadian rhythms), R. B. G. W. (motor patterning), William Greenough (CNS plasticity), Janice Juraska (sex differences in brain and behavior development), Victor Ra- (neuroendocrinology and behavior), Michael Salmon (sen- in brain and behavior development), and Evelyn Sattler (de- and and behavior development). Stipend $16,000 to $23,000. Applicants must be citizens or non-citizen nationals of the U.S. Send curriculum vitae, references and three letters of recommendation to: Dr. Edward D. Roy, Department of Psychology, University of Illinois, 603 East Daniel Street, Champaign, IL 61820. The University of Illinois is an Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE position available immediately at Bay College of Medicine, Houston, Texas, to study the molecular genetics of production of lipid and lipoprotein metabolism. Research project includes regulation of expression of genes related to lipid metabolism at the whole animal as well as tissue culture levels, structure-function relationships using recombinant DNA techniques, and the molecular genetics of human disorders. Applicants should have dual training in a biochemistry in a biochemical science. Experience in molecular biology techniques desirable. Salary commensurate with experience. Send curriculum vitae and names of three references to either: Dr. Lawrence C. B. Chan, Department of Cell Biology, Baylor College of Medicine, 1 Baylor Plaza, Room 21-K, Houston, TX 77030. Telephone: 713-799-4478; or Dr. Joel D. Morrisett, Department of Medicine, The Methodist Hospital, MS/4601, 6565 Fannin Street, Houston, TX 77030. Telephone: 713-799-4164.

Baylor College of Medicine, Houston, Texas is an Equal Opportunity/Affirmative Action Employer.

PROTEIN BIOCHEMISTS/ BIOORGANIC CHEMISTS

BioProbe International, Inc., a leader in Bio-Affinity Separation, has openings for creative research biochemists. Responsibilities include developing new affinity ligands, new solid supports, new activation and coupling chemistries. Qualified applicants will report directly to Dr. T. N. Menon, Director of Research and Development, should have a minimum of a Ph.D. in biochemistry or bioorganic chemistry, have knowledge of protein and enzyme chemistry and 2+ years of hands-on and relevant post-doctoral experience in the synthesis of affinity ligands, preparation of affinity matrix and applications in bio-purification. BioProbe International Inc. is a rapidly growing biotechnology company, located in the beautiful central area of Southern California. These positions offer excellent growth opportunities for outstanding scientists who prefer to do research in a young, dynamic, team-work oriented company.

Please forward your résumé including salary history and names of three references to: Ellen K. Hagen
BioProbe International, Inc., 2842 C Walnut Avenue
Tustin, CA 92680

RESEARCH ASSOCIATE

Research associate required to prepare transgenic mice and mouse chimeras and to participate in biochemical and molecular analyses of the resulting animals and their progeny. This project, which is concerned with preparation of animal models of human chromosomal disorders, requires skills in embryology, molecular biology and genetics, and the ability to produce mice with a minimum of a B.S. in the biological sciences. Applicants should have some training in molecular biology and mouse genetics, and an interest in animal disease models. Submit a resume to: Dr. James H. Flanagan, Department of Psychology, Brandeis University, 415 South St., Waltham, MA 02254. Deadline for applications is 1 March 1988. The University is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority candidates.

SCIENCE, VOL. 239
RESEARCH FELLOW: Research and development in hollow infrared waveguides and infrared waveguide lasers. Design of hollow waveguides for particular wavelengths or broadband operation. Waveguides may be optimized for $T_{E_{41}}$, $E_{11}$, or whispering-galler type mode operation. Fabrication of waveguides by electroforming and deposition of multilayer thin film. Characterization of waveguide transmission by: (1) measurement of quality of output beam; (2) measurement of temperature rise by thermocouples and infrared camera. Waveguide transmission tests under high power (>1 kW). Design, fabrication, and operation of a waveguide laser for $T_{E_{41}}$ mode operation to test hollow waveguide transmission with that mode. Requires Ph.D. degree in physics, education to include 2 years of research in design and construction of waveguide CO$_2$ lasers of mode $E_{11}$ and mode $T_{E_{51}}$. Interested applicants must have a strong background in physics and experience in waveguide research. This position includes a 5K8, 401k, and employer-paid health insurance. Applicants must be U.S. citizens or permanent residents. Send curriculum vitae and three letters of recommendation by 4 March 1988 to: Ms. Carol Budd, Biology Department St. Lawrence University Canton, NY 13617

St. Lawrence University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

VERTEBRATE BIOLOGIST—VISITING ASSISTANT PROFESSOR OF BIOLOGY. St. Lawrence University. One-year replacement. Ph.D. required. Duties commence 24 August 1988, and include teaching comparative anatomy and physiology in the Freshman year. The course in zoology is open to all entering students. Applicants must have at least 1 year of college teaching experience, or 3 years college teaching in zoology, and have completed all the coursework necessary for admission to the graduate program in zoology. Applicants are expected to become involved in undergraduate research activities. Salary range $27,965 to $39,514. Please send letter of application, curriculum vitae, and statement of research interests to: Dr. William P. MacLean, Vice President for Academic Affairs, University of the Virgin Islands, St. Thomas, VI 00802. The closing date is 15 March 1988, but late applications will be considered until the position is filled.

An Equal Opportunity/Affirmative Action Employer and Educator

SEARCH REOPENED UNIVERSITY OF THE VIRGIN ISLANDS

The University of the Virgin Islands is seeking candidates for the following faculty positions, BIOCHEMISTRY. A VISITING POSITION (renewable subject to federal funding) at the assistant or associate professor level on the St. Thomas campus of the University of the Virgin Islands, starting 15 August 1988. (Salary range $27,965 to $39,514.) A doctorate in biochemistry with an interest in biochemistry and cell biology, and introductory courses in chemistry are required. Strong interest and experience in undergraduate instruction is required. Interested candidates are invited to submit an up-to-date curriculum vitae, statement of research interests, letters of recommendation, and a teaching statement to: Dr. William P. MacLean, Vice President for Academic Affairs, University of the Virgin Islands, St. Thomas, VI 00802. An Equal Opportunity/Affirmative Action Employer and Educator.

Microbial Ecologist

What will you discover when you join Lederle?

You'll discover that our Medical Research Division is actively involved in the design and development of novel biological based processes. Currently, we are seeking an individual to join an expanding project team in our Fermentation Department involved in the development of processes to effect the biodegradation of organic chemical wastes. The particular duties of this position are directed to the isolation, characterization and maintenance of microbial species and populations able to metabolize unique classes of organic compounds. The use of these cultures to accelerate biodegradation of such compounds in laboratory and field trials will be evaluated.

To qualify, you should have a strong educational background in microbiology, particularly microbial ecology as evidenced by a graduate degree as well as relevant laboratory experience (1-3 years) at either the academic or industrial level.

Lederle is located in Rockland County, one-half hour from New York City. We offer competitive salaries, a superior benefits package, including a 401k savings option, and a stimulating scientific atmosphere. Please send resume to: Ms. Maureen Quigley, Professional Employment Representative, Lederle Laboratories, Medical Research Division, American Cyanamid Company, Pearl River, NY 10965. An equal opportunity employer m/f.
POSITIONS OPEN

VIROLOGIST

Hands-on bench position working with HIV and other viruses. Research involves quantitating the destruction and expression of infectious virus by chemical disinfection. Skills required: industrial opportunity. Salary is $35,000 to $40,000 (commensurate with experience). Send a detailed résumé with a letter of application to: M. Deacon, Inc., 122 Fairfield Road, Fairfield, NJ 07006.

SEARCH REOPENED

UNIVERSITY OF THE VIRGIN ISLANDS

The University of the Virgin Islands is seeking candidates for the following faculty positions, beginning 15 August 1988:

ASSOCIATE PROFESSOR OF BIOLOGY (Non-tenure-track, renewable). Doctorate and experience teaching invertebrate biology and evolution or population biology are required. Field experience in tropical and research interest in region desirable. Salary range $27,965 to $39,514 plus benefits. Address letter of application, up to two letters of recommendation and three letters of recommendation by 7 March 1988 to: Dr. William P. MacLean, Vice President for Academic Affairs, University of the Virgin Islands, St. Thomas, VI 08092.

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JPL/NASA VISITING SCIENTIST

SPACE BIOMEDICAL RESEARCH
MUSCULOSKELETAL EMPHASIS

The Jet Propulsion Laboratory invites applications to the Visiting Senior Scientist Program in the area of Space Biomedical Research. The position requires a Ph.D. or equivalent degree, along with research experience in the neuromuscular area, a record of research publications in the refereed scientific journals and long-term commitment. Applicants are invited to indicate the preferred choices. Responsibilities include aiding in the planning and implementation of the Bio-medical Research Program within the Life Sciences Division at NASA Headquarters. Duties include extensive contacts with the research community, conducting peer review of research proposals, recommending selection of investigator projects within NASA centers, and advising potential investigators from the university community on their plans related to the NASA Biomedical Program. Frequent travel and residence near NASA Headquarters (in the Washington, D.C. area) will be required. Appointees must be U.S. citizens or permanent residents, and are expected to return to their home institutions after the NASA assignment. Please provide curriculum vitae, bibliography and the names of four references to:

Dr. Harry Ashkenas, 180-900
Jet Propulsion Laboratory
4800 Oak Grove Drive
Pasadena, CA 91109
Telephone: 818-354-8251
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FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP IN LEUKOCYTE BIOLOGY

Position now available for a postdoctoral research candidate in the Section of Leukocyte Biology, Department of Pediatrics and Cell Biology, Baylor College of Medicine, Houston, Texas. Competitive salary, flexible starting date and 2 to 3 years of support guaranteed. Previous experience in signal transduction and/or immunological methods preferred. Investigative program will generally focus on assessments of the molecular determinants of cellular adherence reactions with some applications to genetic and immunopathological inflammatory states. Address inquiries to: Donald C. Anderson, M.D., Leukocyte Biology Laboratory, 8080 North Stadium, Suite 2106, Houston, TX 77030. Telephone: 713-794-2521.

COURSE

COLD SPRING HARBOR LABORATORY NEUROBIOLOGY COURSES

Molecular Approaches to Ion Channel Functions and Expression of Infectious Virus by Chemical Disinfection. Salary range $35,000 to $40,000 (commensurate with experience). Send a detailed résumé with a letter of application to: M. Deacon, Inc., 122 Fairfield Road, Fairfield, NJ 07006.

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FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP—Molecular and cellular biology of childhood neoplasms. A postdoctoral position is available immediately for a Ph.D. and/or M.D. to investigate the role of oncogenes in pediatric solid tumors. Prior experience in molecular and/or cellular biology, genetie technology, or in situ hybridization would be helpful, but is not essential. Please send inquiri es to: Dr. Perry Nisen, M.D., Ph.D., Division of Hematology Oncology, Schneider Children's Hospital of Long Island Jewish Medical Center, New Hyde Park, NY 11042.

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THE ARNOLD ARBORETUM OF HARVARD UNIVERSITY

THE KATHERINE H. PUTNAM FELLOWSHIP IN THE BRANCH SCIENCE

Applications are invited from established scholars seeking Sabbatical opportunities or from young scientists, who wish to pursue research which would substantially benefit from access to the living woody plant collections of the Arnold Arboretum, and their supporting herbaria and libraries. Fellowships are tenable for up to 1 year. Fields of research can include theoretical and applied botany, horticulture, forestry, landscape architecture and relevant social sciences. Applicants must be willing to teach a course in the University. The fellowship will provide substantial benefits according to Harvard University norms. Travel costs to Boston will be reimbursed.


BUGHER FOUNDATION—AMERICAN HEART ASSOCIATION FELLOWSHIPS IN CARDIOLOGY AND MOLECULAR BIOLOGY

The Bugher Foundation and the American Heart Association have recently established a Center for Research on the Molecular Biology of the Cardiovascular System at the University of Texas Southwestern Medical Center at Dallas. A number of fellowships are available to people interested in establishing a career in basic cardiovascular research. Successful candidates will work for 2 or 3 years in laboratories at the Southwestern Medical Center that are using the techniques of molecular biology to study the cardiovascular system. Applications should be submitted as soon as possible. More details can be obtained by calling (214) 704-8151.

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FELLOWSHIPS

INTERNATIONAL CANCER RESEARCH FELLOWSHIP

The Hayashibara Mutual Aid Fund, a non-profit-making organization within the Hayashibara Group, which consists of Fujisaki M.D., the (Nontenure-track, renewable). Doctorate and experience teaching invertebrate biology and evolution or population biology are required. Field experience in tropical and research interest in region desirable. Salary range $27,965 to $39,514 plus benefits. Address letter of application, up to two letters of recommendation and three letters of recommendation by 7 March 1988 to: Dr. William P. MacLean, Vice President for Academic Affairs, University of the Virgin Islands, St. Thomas, VI 08092.

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POSTDOCTORAL FELLOWSHIPS positions available—The University of Michigan, Department of Neurology, is seeking a recent Ph.D. for a postdoctoral fellowship position. Applicants must have a professional degree (M.D., Ph.D., D.M.D., and some with Ph.D. in immunology) as well as expertise in the field of research and willingness to participate in cell biology. Experience in developing and performing experiments in vitro as well as in vivo is desirable. Send curriculum vitae and names of three references to: Dr. Kent Johnson, M.D., Department of Neurology, University of Michigan, 1301 Catherine Road, Ann Arbor, MI 48109-0002.

The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP—COASTAL MARINE SCHOLAR

The University of Michigan, Department of Marine Biology, is seeking a recent Ph.D. for a postdoctoral fellowship position in the area of marine biology. Applicants must have a professional degree (M.D., Ph.D., D.M.D., and some with Ph.D. in immunology) as well as expertise in the field of research and willingness to participate in cell biology. Experience in developing and performing experiments in vitro as well as in vivo is desirable. Send curriculum vitae and names of three references to: Dr. Kent Johnson, M.D., Department of Neurology, University of Michigan, 1301 Catherine Road, Ann Arbor, MI 48109-0002.

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POSTDOCTORAL FELLOWSHIP IN EVENT-RELATED POTENTIAL TOPOGRAPHIC MAPPING, Harvard Medical School. Two-year position, open February 1988, for experimental or clinical psychologist or physicist (Ph.D. or M.D., respectively) to work with Robert McCarthy and a team of researchers in the study of P300, other ERPs, and sustained attention in schizophrenia and normals. Experience with EEG recording techniques essential, background in cognition useful. Research potential more important than clinical experience. NIMH stipend levels. Send curriculum vitae, names of three references, and relevant reprints to: Karen D’Amato, Box S, Clinical Research Training Program, 770 Fenwood Road, Boston, MA 02115. Telephone: 617-734-0801.

POSTDOCTORAL FELLOWSHIPS IN CHEMISTRY OR BIOLOGY OF POLYPEPTIDE HORMONES

Applications are invited from recent Ph.D.’s in interdisciplinary group, studying polypeptides of pituitary or other tissues, using HPLC, gas phase microsequencing, peptide synthesis, and/or protein chemistry. Research is directed toward the isolation, synthesis, and characterization of proteins and peptides. Send curriculum vitae and three references to: Dr. A. F. Parlow, Harbor-UCLA Medical Center 1000 W. Carson St, Dr. G. T. Torrance, CA 90509.
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<td>no</td>
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